

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("6045727").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/12 10:08
L2	2	((("5753436") or ("5094939")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/12 10:19
L3	40054	chemiluminescence or chemiluminescent	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 11:36
L4	2	I3 and (dioxetane same enzyme same (ammonium or sulfonium or phosphonium) same (oxidiz\$3 or reduc\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 10:21
L5	63	I3 and (dioxetane same enzyme same (ammonium or sulfonium or phosphonium))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 10:22
L6	4060	I3 near2 enhance\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 11:37
L7	475	I6 and ((oxidizing or reducing) adj agent)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 11:37
L8	26	I6 same ((oxidizing or reducing) adj agent)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 11:38
L9	186309	((ammonium or sulfonium or phosphonium) adj2 salt)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 11:39

EAST Search History

L10	65740	(quaternary adj2 (ammonium or sulfonium or phosphonium) adj2 salt)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:02
L11	1337	l10 same ((oxidizing or reducing) adj agent)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 11:44
L12	4	l11 same l6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 11:40
L13	9	l11 and l6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 11:41
L14	2732	l10 same ((oxidizing or reducing))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 11:42
L15	9	l14 and l6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 11:42
L16	6362	l10 same (oxidiz\$3 or reduc\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 11:42
L17	16	l16 and l6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 11:42

EAST Search History

L18	2583	I11 same (benefit or beneficial or advantage\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 11:46
L19	2	I18 and I3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 11:45
L20	99	I11 same (benefit or beneficial or advantage\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 11:46
L21	0	I20 and I3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 11:46
L22	2359	I10 same (oxidation or reduction)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:04
L23	3	I22 and chemiluminescence	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:03
L24	1011	I10 same ((ammonium adj persulfate) or (sodium adj periodate) or (sodium adj sulfite) or (hydrogen adj peroxide))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:05
L25	114	I24 and (chemiluminescent or chemiluminescence or luminescent or fluorescent)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:06

EAST Search History

L26	43	I24 and (chemiluminescent or chemiluminescence or luminescent)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:16
L27	5420	(treated or treating) same I10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:17
L28	71	"I28" same (oxidizing or reducing or oxidation or reduction)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:17
L29	666	I27 same (oxidizing or reducing or oxidation or reduction)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:18
L30	17	I29 same (sodium adj sulfite)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:18
L31	12	I29 same (sodium adj hypochlorite)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:20
L32	5	I29 same (ammonium adj persulfate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:40
L33	2	"5112960".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 15:44

EAST Search History

L34	1605	(chemiluminescence or chemiluminescent) same ((ammonium adj persulfate) or (sodium adj sulfite) or (sodium adj hypochlorite) or (hydrogen adj peroxide))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:44
L35	22	I34 same (quaternary near4 salt)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:47
L36	2	"4282357".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:52
L37	2	"6045727".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:52
L38	0	I37 and (oxidization or oxidizing)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:52
L39	1	I37 and (reducing or reduction)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:53
L40	0	I37 and (hydrogen adj peroxide)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:53
L41	0	I37 and (ammonium adj persulfate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:59

EAST Search History

L42	2	"20020019553".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 14:00
L43	2	"20020019553"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 14:00
L44	0	l43 and (sodium adj sulfite)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 14:26
L45	0	poly adj vinyl adj benzyl adj tributyl adj ammonium adj chloride	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 14:26
L46	642852	poly(vinylbenzyltributyl adj ammonium adj chloride)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 14:32
L47	669	l46 same (chemiluminescent or chemiluminescence)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 14:34
L48	15	l47 same (oxidizing or reduction or oxidation or reducing)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 14:35
L49	19	"poly(vinylbenzyltributyl ammonium chloride)"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 14:32

EAST Search History

L50	12	I49 same (chemiluminescent or chemiluminescence)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 15:10
L51	0	I50 same (oxidizing or reduction or oxidation or reducing)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 14:35
L52	2	"6045727".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 15:10
L53	1	I52 and (sodium adj sulfite)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 15:16
L54	3223	I10 same (MW or (molecular adj weight))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 15:17
L55	42	I54 same "400000"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 15:17
L56	2	"6045727".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 15:44
L57	1	I56 and dioxetane	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 15:44

EAST Search History

S1	5	((("20040170685") or ("20020128234") or ("20040026268") or ("20030157241") or ("20020049495")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/11 13:42
S2	4	((("6231600") or ("6641611") or ("6569195") or ("6656966")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/11 17:13
S3	1	("20040029268").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/11 13:42
S4	1	("20040106203").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/12 10:04

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:27:37 ON 12 JUL 2006

=> file biotechno

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'BIOTECHNO' ENTERED AT 13:28:08 ON 12 JUL 2006

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FILE LAST UPDATED: 7 JAN 2004

<20040107/UP>

FILE COVERS 1980 TO 2003.

>>> BIOTECHNO IS NO LONGER BEING UPDATED AS OF 2004 <<<

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION AVAILABLE IN
/CT AND BASIC INDEX <<<

=> s (quaternary(w) ammonium(w) salt)

3308 QUATERNARY

10381 AMMONIUM

3 AMMONIUMS

10381 AMMONIUM

(AMMONIUM OR AMMONIUMS)

15513 SALT

4392 SALTS

18604 SALT

(SALT OR SALTS)

L1 49 (QUATERNARY(W) AMMONIUM(W) SALT)

=> s (quaternary(w) sulfonium(w) salt)

3308 QUATERNARY

64 SULFONIUM

15513 SALT

4392 SALTS

18604 SALT

(SALT OR SALTS)

L2 0 (QUATERNARY(W) SULFONIUM(W) SALT)

=> s (quaternary(w) phosphonium(w) salt)

3308 QUATERNARY

77 PHOSPHONIUM

15513 SALT

4392 SALTS

18604 SALT

(SALT OR SALTS)

L3 0 (QUATERNARY(W) PHOSPHONIUM(W) SALT)

=> s l1 and (chemiluminescence or chemiluminescent)

2365 CHEMILUMINESCENCE

1137 CHEMILUMINESCENT

L4 0 L1 AND (CHEMILUMINESCENCE OR CHEMILUMINESCENT)

=> s (chemiluminescence or chemiluminescent)

2365 CHEMILUMINESCENCE

1137 CHEMILUMINESCENT

L5 3216 (CHEMILUMINESCENCE OR CHEMILUMINESCENT)

=> s l5 and l1

L6 0 L5 AND L1

=> l5 and salt

L5 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s 15 and salt

15513 SALT

4392 SALTS

18604 SALT

(SALT OR SALTS)

L7 46 L5 AND SALT

=> s 17 and ammonium

10381 AMMONIUM

3 AMMONIUMS

10381 AMMONIUM

(AMMONIUM OR AMMONIUMS)

L8 2 L7 AND AMMONIUM

=> d all ibib

L8 ANSWER 1 OF 2 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN

AN 2004:37329718 BIOTECHNO <<LOGINID::20060712>>

TI Catalytic generation of nitric oxide from nitrite at the interface of
polymeric films doped with lipophilic Cu(II)-complex: A potential route
to the preparation of thromboresistant coatings

AU Oh B.K.; Meyerhoff M.E.

CS M.E. Meyerhoff, Department of Chemistry, University of Michigan, Ann
Arbor, MI 48109-1055, United States.

E-mail: mmeyerho@umich.edu

SO Biomaterials, (2004), 25/2 (283-293), 43 reference(s)

CODEN: BIMADU ISSN: 0142-9612

DT Journal; Article

CY United Kingdom

LA English

SL English

AB A novel approach potentially useful for the development of more
thromboresistant polymeric materials is examined. The method is based on
the catalytic generation of nitric oxide (NO) via Cu(I) mediated
reduction of nitrite ions. Preliminary solution phase studies demonstrate
that ascorbate or thiolate anions can generate Cu(I) from Cu(II) with
subsequent catalytic conversion of any nitrite ions present to NO by the
unstable Cu(I) species. Incorporation of this same chemistry within a
hydrophobic polymeric material requires immobilizing Cu(II) ions into a
polymeric phase via use of a lipophilic Cu(II) chelating ligand (dibenzo
[e,k]-2,3,8,9-tetraphenyl-1,4,7,10-tetraaza-cyclododeca-1,3,7,9-tetraene
(DTTCT)). It is shown that this complex can be reduced to its Cu(I) form
by appropriate reducing equivalents present in the bathing solution. The
resulting Cu(I) complex can then reduce nitrite to NO with the NO
generation occurring at the polymer/solution interface at physiological
pH. Data from chemiluminescence experiments indicate that the
flux of NO at the polymer surface is comparable to that of endothelial
cells ($\geq 1 \times 10^{-10}$ mol/cm² min) when 0.5mM nitrite/1mM
ascorbate are present in the bathing solution. Potentially more useful NO
generation can be achieved by doping the polymer film with the Cu(II)
complex along with a lipophilic quaternary ammonium nitrite
salt. In this case reducing equivalents within the aqueous phase
enable the nitrite derived from the polymer to be converted into NO by
the Cu(II/I) ligand complex. Films of this type are shown to generate NO
for at least 6h in PBS buffer with fluxes on the order of 1.5×10^{-10}
mol/cm² min. Physiologically relevant levels of
NO release are also shown to exist at the polymer interface when films
are soaked in fresh plasma as well as undiluted whole blood, indicating
that endogenous reducing equivalents present in blood can efficiently

reduce the Cu(II)-ligand within the polymer film. The prospects of using these new NO releasing films to devise more biocompatible polymeric coatings for biomedical applications are discussed. .COPYRGT. 2003 Elsevier Ltd. All rights reserved.

CT *material coating; *catalysis; *film; *lipophilicity; *thrombus; *nitric oxide; *nitrite; *polymer; *copper complex; *biomaterial; technique; reduction; hydrophobicity; immobilization; chelation; aqueous solution; pH; data analysis; chemoluminescence; surface property; endothelium cell; comparative study; plasma; blood; medical research; biocompatibility; nonhuman; controlled study; article; priority journal; ascorbic acid; thiol derivative; anion; ligand; dibenzo[e,k] 2,3,8,9 tetraphenyl 1,4,7,10 tetraazacyclododeca 1,3,7,9 tetraene; alkene derivative; chelating agent; ammonium nitrite; ammonium derivative; unclassified drug

RN (nitric oxide) 10102-43-9; (nitrite) 14797-65-0; (ascorbic acid) 134-03-2, 15421-15-5, 50-81-7; (thiol derivative) 13940-21-1

ACCESSION NUMBER: 2004:37329718 BIOTECHNO <<LOGINID::20060712>>

TITLE: Catalytic generation of nitric oxide from nitrite at the interface of polymeric films doped with lipophilic Cu(II)-complex: A potential route to the preparation of thromboresistant coatings

AUTHOR: Oh B.K.; Meyerhoff M.E.

CORPORATE SOURCE: M.E. Meyerhoff, Department of Chemistry, University of Michigan, Ann Arbor, MI 48109-1055, United States.
E-mail: mmeyerho@umich.edu

SOURCE: Biomaterials, (2004), 25/2 (283-293), 43 reference(s)
CODEN: BIMADU ISSN: 0142-9612

DOCUMENT TYPE: Journal; Article

COUNTRY: United Kingdom

LANGUAGE: English

SUMMARY LANGUAGE: English

=> d 2 ibib

L8 ANSWER 2 OF 2 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN

ACCESSION NUMBER: 1997:27158810 BIOTECHNO <<LOGINID::20060712>>

TITLE: Investigations of the enhancer effect of a high-salt concentration medium on the luminol chemiluminescent reaction

AUTHOR: Collaudin A.B.; Blum L.J.

CORPORATE SOURCE: A.B. Collaudin, Laboratoire de Genie Enzymatique, UPRESA CNRS 5013, Universite Claude Bernard Lyon I, 43, bd du 11 Novembre 1918, 69622 Villeurbanne Cedex, France.
E-mail: Loic.Blum@univ-lyon1.fr

SOURCE: Photochemistry and Photobiology, (1997), 65/2 (303-308), 17 reference(s)
CODEN: PHCBAP ISSN: 0031-8655

DOCUMENT TYPE: Journal; Article

COUNTRY: United States

LANGUAGE: English

SUMMARY LANGUAGE: English

=> s 11 and (oxidizer or reducer or oxidation or reduction)

110 OXIDIZER

263 OXIDIZERS

336 OXIDIZER

(OXIDIZER OR OXIDIZERS)

125 REDUCER

249 REDUCERS

360 REDUCER

(REDUCER OR REDUCERS)

30020 OXIDATION
383 OXIDATIONS
30096 OXIDATION
(OXIDATION OR OXIDATIONS)
73670 REDUCTION
5985 REDUCTIONS
77782 REDUCTION
(REDUCTION OR REDUCTIONS)

L9 4 L1 AND (OXIDIZER OR REDUCER OR OXIDATION OR REDUCTION)

=> d 1-4 ibib

L9 ANSWER 1 OF 4 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN
ACCESSION NUMBER: 2003:36988629 BIOTECHNO <<LOGINID::20060712>>
TITLE: Assessment of the biodegradability of
dialkyldimethylammonium salts in flow through systems
AUTHOR: Van Ginkel C.G.; Hoenderboom A.; Van Haperen A.M.;
Geurts M.G.J.
CORPORATE SOURCE: C.G. Van Ginkel, Akzo Nobel Chemicals Research Arnhem,
P.O. Box 9300, 6800 SB Arnhem, Netherlands.
E-mail: kees.vanginkel@akzonobel.com
SOURCE: Journal of Environmental Science and Health - Part A
Toxic/Hazardous Substances and Environmental
Engineering, (2003), 38/9 (1825-1835), 21 reference(s)
CODEN: JATEFO ISSN: 1093-4529
DOCUMENT TYPE: Journal; Article
COUNTRY: United States
LANGUAGE: English
SUMMARY LANGUAGE: English

L9 ANSWER 2 OF 4 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN
ACCESSION NUMBER: 2000:32111235 BIOTECHNO <<LOGINID::20060712>>
TITLE: Antioxidative activity of some quaternary
ammonium salts incorporated into
erythrocyte membranes
AUTHOR: Kleszczynska H.; Sarapuk J.; Oswiecimska M.; Witek S.
CORPORATE SOURCE: H. Kleszczynska, Dept. of Physics/Biophysics,
Agricultural University, Norwida 25, 50-375 Wroclaw,
Poland.
E-mail: Halina@ozi.ar.pl
SOURCE: Zeitschrift fur Naturforschung - Section C Journal of
Biosciences, (2000), 55/11-12 (976-980), 22
reference(s)
CODEN: ZNCBDA ISSN: 0939-5075
DOCUMENT TYPE: Journal; Article
COUNTRY: Germany, Federal Republic of
LANGUAGE: English
SUMMARY LANGUAGE: English

L9 ANSWER 3 OF 4 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN
ACCESSION NUMBER: 1998:28320386 BIOTECHNO <<LOGINID::20060712>>
TITLE: Inhibition of lipid peroxidation in the erythrocyte
membrane by quaternary morpholinium salts with
antioxidant function
AUTHOR: Kleszczynska H.; Oswiecimska M.; Witek S.; Przestalski
S.
CORPORATE SOURCE: Dr. H. Kleszczynska, Department of Physics and
Biophysics, Agricultural University, Norwida 25,
50-375 Wroclaw, Poland.
E-mail: biophys@ozi.ar.wroc.pl
SOURCE: Zeitschrift fur Naturforschung - Section C Journal of
Biosciences, (1998), 53/5-6 (425-430), 21 reference(s)
CODEN: ZNCBDA ISSN: 0939-5075
DOCUMENT TYPE: Journal; Article

COUNTRY: Germany, Federal Republic of
LANGUAGE: English
SUMMARY LANGUAGE: English

L9 ANSWER 4 OF 4 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN
ACCESSION NUMBER: 1989:19207291 BIOTECHNO <<LOGINID::20060712>>
TITLE: In vivo standardization of cutaneous bactericidal
activity of antiseptics by using monoxenic hairless
mice

AUTHOR: Barc M.C.; Tekaia F.; Bourlioux P.
CORPORATE SOURCE: Departement de Microbiologie, Unite d'Enseignement et
de Recherche d'Hygiene de l'Homme et de son
Environnement, Centre d'Etudes Pharmaceutiques, 92290
Chatenay-Malabry, France.

SOURCE: Applied and Environmental Microbiology, (1989), 55/8
(1911-1915)

CODEN: AEMIDF ISSN: 0099-2240

DOCUMENT TYPE: Journal; Article
COUNTRY: United States
LANGUAGE: English
SUMMARY LANGUAGE: English

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